

Application No.: 10/781,989

2

Docket No.: 415142000303

**AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listing, of claims in the application:

Claim 84 (Previously presented) A method of producing a transgenic plant expressing an immunoglobulin comprising a protection protein in association with an immunoglobulin heavy chain having at least a portion of an antigen binding domain, wherein the protection protein comprises a portion of SEQ ID NO: 2, 4, 6, 8, or 10, comprising:

- a) introducing into a first plant an expression vector containing a nucleotide sequence encoding the protection protein operably linked to a transcriptional promoter,
- b) introducing into a second plant an expression vector containing a nucleotide sequence encoding the immunoglobulin heavy chain having at least a portion of an antigen binding domain operably linked to a transcriptional promoter,
- c) crossing said first plant and said second plant to produce offspring, and
- d) selecting from said offspring a transgenic plant expressing the immunoglobulin comprising the protection protein in association with the immunoglobulin heavy chain having at least a portion of an antigen binding domain.

Claim 85 (Previously presented) The method of claim 84, wherein the transgenic plant is a monocot.

Claim 86 (Previously presented) The method of claim 84, wherein the transgenic plant is a dicot.

Claim 87 (Previously presented) The method of claim 86, wherein the transgenic plant is a tobacco plant.

sf-2220647

Application No.: 10/781,989

3

Docket No.: 415142000303

Claim 88 (Previously presented) The method of claim 84, wherein the transgenic plant is an alfalfa plant.

Claim 89 (Previously presented) The method of claim 84, further comprising introducing into said transgenic plant an expression vector encoding an immunoglobulin derived light chain having at least a portion of an antigen binding domain operably linked to a transcriptional promoter.

Claim 90 (Currently amended) The method of claim 84, further comprising introducing into said first plant an expression vector encoding an immunoglobulin derived light chain having at least a portion of an antigen binding domain operably linked to a transcriptional promoter.

Claim 91 (Currently amended) The method of claim 84, further comprising introducing into said second plant an expression vector encoding an immunoglobulin derived light chain having at least a portion of an antigen binding domain operably linked to a transcriptional promoter.

Claim 92 (Previously presented) The method of claim 84, further comprising introducing into said transgenic plant an expression vector encoding an immunoglobulin derived J chain having at least a portion of an antigen binding domain operably linked to a transcriptional promoter.

Claim 93 (Currently amended) The method of claim 84, further comprising introducing into said first plant an expression vector encoding an immunoglobulin derived J chain having at least a portion of an antigen binding domain operably linked to a transcriptional promoter.

Claim 94 (Currently amended) The method of claim 84, further comprising introducing into said second plant an expression vector encoding an immunoglobulin derived J

sf-2220647

Application No.: 10/781,989

4

Docket No.: 415142000303

chain having at least a portion of an antigen binding domain operably linked to a transcriptional promoter.

sf-2220647